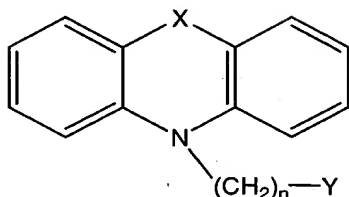
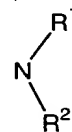


Abstract

A compound having the structural formula



or a pharmaceutically acceptable salt or prodrug thereof, wherein X is a
5 substituted or unsubstituted alkyl or a heteroatom; n is 4, 5 or 6; Y is a substituted or
unsubstituted alkyl, cycloalkyl, heterocycloalkyl, aryl, heteroaryl, or



wherein R_1 and R_2 are each independently, H, a heteroatom, substituted or unsubstituted
alkyl, cycloalkyl, heterocycloalkyl, aryl, or heteroaryl; and wherein each ring structure are
independently substituted or unsubstituted is disclosed. Also disclosed are chemosensitizing
15 agents and methods of modulating, attenuating, reversing, or affecting a cell's or organism's
resistance to a given drug such as an antimalarial.